

Interoffice Memorandum

From: Albert Ruiz-Vela

Date: July 30, 1997

To: Dan Even

Subject: **Monthly Report – July 1997
Product Development
& Engineering**

cc: Mark Clineff
Glenn Lyon
Mark Vigna
Eckhard Vogel
Steve Tomassi
Dan Dixon
Brian Hulan
Henry Hulan

Farrokh Farzin-Nia
Mark Payne
Raymond Thornton
Ray Wong

Bob Davis
Ted Driefuss
Grace Kibler
Colin Matheson
Steve Paskin

Tom McCarthy
Joe Rotino
Mary Warren

**ORMCO CONFIDENTIAL
AND PROPRIETARY
INFORMATION –**

***DO NOT COPY
OR DISTRIBUTE***

ORMCO CONFIDENTIAL AND PROPRIETARY INFORMATION

9707_rec.doc

ORMCO CONFIDENTIAL AND PROPRIETARY INFORMATION
--

ORTHODONTIC PRODUCTS.....	1
NEW PRODUCT DEVELOPMENT ACTIVITIES.....	1
<u>BRACKETS / BUCCAL TUBES</u>.....	Error!
Alexander Spirit BRACKETS.....	4
Orthos-AD ALEXANDER APPLIANCE DISCIPLINE SYSTEM.....	4
Orthos CARRIERE BRACKET.....	4
SELF LIGATING BRACKET.....	5
BURSTONE Orthos CUSPID BRACKET with HORIZONTAL TUBE.....	5
TOOTH SHAPED PAD.....	6
Orthos WELDABLE BICUSPIDS.....	6
TAKEMOTO LINGUAL APPLIANCE.....	6
<u>BANDS</u>.....	6
TEXTURED MOLAR BANDS.....	6
<u>INTRA ORAL</u>.....	6
MOLDED Mini-Stick Power Os.....	7
LOW COST RPE.....	7
Orthos LIP BUMPER.....	7
MANDIBULAR ANTERIOR REPOSITIONING APPLIANCE (Dr. Eckhart).....	7
<u>INSTRUMENTS</u>.....	8
FLUSH CUT DISTAL-END CUTTER.....	8
RESEARCH AND EXPLORATORY PRODUCT INVESTIGATIONS.....	8
<u>BRACKETS / BUCCAL TUBES</u>.....	8
Orthos CM F in Spirit MB.....	8
Custom R, CUSTOM LABIAL APPLIANCE SYSTEM.....	8
ADHESIVE PRECOAT BRACKETS.....	9
TITANIUM BRACKET.....	9
TITANIUM BUCCAL TUBE - MIM PROCESS.....	10
Wildman LINGUAL BRACKET.....	10
SINGLE-PIECE BRACKET.....	10
<u>BANDS</u>.....	10
TITANIUM BANDS.....	10
<u>WIRE</u>.....	11
TITANIUM ALLOY WIRE.....	11
GOLD ARCHES.....	11
REVERSE-CURVE Copper Ni-Ti ARCHWIRES.....	11
<u>INTRA ORAL</u>.....	11
ORMCO CLASS II JUMPER.....	11
IMPROVED POWER CHAIN.....	12
<u>EXTRA ORAL</u>.....	12
WEDGE-SHAPED NECK STRAP.....	12
<u>SUPPLIES / DISPENSING SYSTEMS</u>.....	12
UNI-BRACKET PACKAGING.....	12
ARCH MEASURING TEMPLATE.....	12
<u>ADHESIVES</u>.....	13
MOISTURE-RESISTANT ADHESIVE.....	13
<u>INSTRUMENTS</u>.....	13
MARA THREE-JAW PLIER.....	13
MARA TORQUE TOOL.....	13
<u>MISCELLANEOUS</u>.....	13
MATERIAL RESEARCH.....	13
PRODUCT IMPROVEMENT / MANUFACTURING SUPPORT ACTIVITIES.....	14

ORMCO CONFIDENTIAL AND PROPRIETARY INFORMATION

<i>IMPROVED OPTIMESH</i>	14
<i>CE MARKING</i>	14
<i>BRACKET PLACEMENT IMPROVEMENT</i>	15
<i>AOA (LABORATORY) ENGINEERING SUPPORT</i>	15
<i>AEZ / ETM INSTRUMENT SUPPORT</i>	16
<i>CUSTOM BRAZE</i>	16
ENDODONTIC PRODUCTS	16
NEW PRODUCT DEVELOPMENT	16
<i>Post Remover Kit EIE Endo</i>	16
RESEARCH AND EXPLORATORY PRODUCT INVESTIGATIONS	17
<i>Buchanan HAND PLUGGER</i>	17
MISCELLANEOUS DEPARTMENT ACTIVITIES	17
<i>CAPITAL APPROPRIATION REQUESTS</i>	17
PRODUCTS CURRENTLY ON INACTIVE STATUS	17

ORMCO CONFIDENTIAL AND PROPRIETARY INFORMATION**ORTHODONTIC PRODUCTS****RESEARCH AND EXPLORATORY PRODUCT INVESTIGATIONS****CustomRx CUSTOM LABIAL APPLIANCE SYSTEM (Project 853-E Craig Andreiko/Eric Chapoulaud)****a. Lab Reopening (Craig Andreiko)****1) Accomplishments / Status**

- ☒ Debugging of the bracket design software with cylindrical vertical slot.
- ☒ A software module to automatically create a brackets tree for the 5x5 case was developed and tested with the SANDERS MM6 Pro machine. This software creates a '.STL' file from the Setup model file that contains the brackets models.
- ☒ The Bracket design has been also improved to include constant pad thickness, lower gingival wing, rounded corners on the pad.

2) Goals For August

- ☐ Improve the brackets tree design, manufacture tree samples and cast them.
- ☐ Creation of 5x5 case of Jigs and brackets.

3) Major Project Milestones

- © 3D JIG Design review: 8/31/97

b. 3D Digitizing (Eric Chapoulaud)**1) Accomplishments / Status**

- ☒ No development was done this month.

2) Goals For August

- ☐ No development is anticipated this month.

3) Major Project Milestones

- © Mandibular jaw of the PK Thomas model scanned: August 97.

c. Bracket Fabrication (Eric Chapoulaud)**1) Accomplishments / Status**

- ☒ Training at SANDERS for E. Chapoulaud and L. Phaneuf was accomplished.
- ☒ Installation of the MMI, upgrade version of the MM6 Pro. Intermittent problems on the building jet was discovered. A new jet will be sent by SANDERS to replace it.
- ☒ Upgrade of the SANDERS Software.

2) Goals For August

- ☐ New Upgrade of the SANDERS software.
- ☐ Installation of a Printer Server, that will be used as a Milling machine Server also.

3) Major Project Milestones

- ©